

**COMMUNICATION SYSTEM INCLUDING AN INTERWORKING MOBILE  
SWITCHING CENTER FOR CALL TERMINATION**

5

ABSTRACT OF THE DISCLOSURE

5 A communication system includes User Equipment  
(111), Radio Access Network (RAN) (121), a packet-  
switched domain (131), an IP Multimedia Subsystem (IMS)  
10 (141), a circuit-switched domain (151), a Domain Name  
System (DNS) (165), a Charging Gateway Function (CGF)  
(134), an EIR (135), a Transport Signaling Gateway (T-  
SGW) (146), and a Roaming Signaling Gateway (R-SGW)  
(147). The CS domain (151) includes an interworking  
15 Mobile Switching Center (iMSC) (201). The iMSC (201)  
translates the CS domain registration, call control,  
feature control, and feature invocation procedures  
associated with the access technology to standard SIP  
procedures. The media gateway (MGW) (173) under the  
20 control of the iMSC (201) converts the air interface  
media flow into a packet stream that is managed by SIP  
procedures within the IMS (141). The iMSC (201) thereby  
allows for interworking between circuit-switched and  
packet-switched domains for call terminations.

25

2025-07-24 10:10:10